尺寸：148X210MM

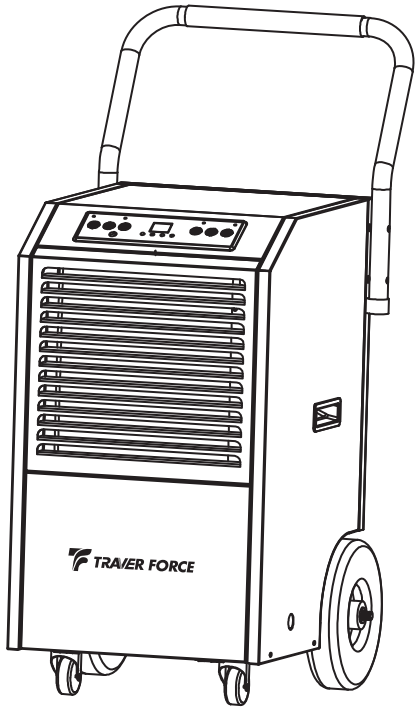
形式：骑马钉共16页黑白双面印刷

材质：书写纸100G

TRAVER FORCE

Dehumidifier

TDH52L



This guide provides a quick overview of the unit's features and how to use it. Keep the manual handy for future reference.

Need more help? Email us at **supports@traverforce.com**

User Guide

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IMPORTANT SAFETY INFORMATION

1.1 Product Description

This dehumidifier removes moisture from rooms and is commonly used in basements, warehouses, villas, and many other places.

It uses the environmentally friendly refrigerant R32, which has no harmful effects on the ozone layer (Ozone Depletion Potential or ODP), minimal greenhouse effect (Global Warming Potential or GWP), and is readily available worldwide. Due to its efficient energy properties, R32 is highly suitable as a coolant for this application. However, precautions should be taken into consideration due to the flammability of the coolant.

1.2 Symbols From the Unit and User Manual

 Refrigerant Safety Group A2L	This unit utilizes a flammable refrigerant. If the refrigerant leaks and contacts a fire or heating element, it can produce harmful gases and pose a fire risk.
	Carefully read the USER MANUAL before operating the unit.
	Additional information can be found in the USER MANUAL, SERVICE MANUAL, and similar documents.
	Service personnel must carefully read the USER MANUAL and SERVICE MANUAL before operating the unit.

The following safety precautions should always be observed:

- This appliance is suitable for children aged 8 years and older, as well as individuals with reduced physical, sensory, or mental capabilities, or limited experience and knowledge, provided they are supervised or instructed on how to use it safely and understand the associated hazards. Children should not play with the appliance, and cleaning or maintenance should not be done by children without supervision.
- This appliance is intended for indoor use only and should not be used outdoors.
- The unit is specifically designed to operate with R32 (propane) gas as the designated refrigerant.
- The refrigerant loop is sealed, and only a qualified technician should perform any servicing.
- Do not release the refrigerant into the atmosphere.
- R32 (propane) is flammable and heavier than air. It tends to collect in low areas but can also be circulated by the unit's fans.
- If propane gas is present or suspected, do not allow untrained personnel to try to identify the cause.

- The propane gas used in the unit is odorless.
- The absence of a smell does not mean there is no leaked gas.
- If a leak is detected, evacuate all individuals from the area immediately, ventilate the room, and contact the local fire department to inform them of the propane leak.
- Do not allow anyone to re-enter the area until a qualified service technician arrives and confirms that it is safe to do so.
- Do not use open flames, cigarettes, or any other potential sources of ignition inside or near the units.
- Component parts are specifically designed to be non-incendiary and non-sparking for use with propane. Only identical repair parts should be used for replacements.
- FAILURE TO ADHERE TO THIS WARNING COULD LEAD TO AN EXPLOSION, CAUSING DEATH, INJURY, AND PROPERTY DAMAGE.

2. SAFETY GUIDELINES

 WARNING	Please read this manual carefully and ensure full understanding before operating your appliance.

2.1 Operation Precautions

- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent, or qualified personnel to avoid hazards.
- The appliance must be disconnected from its power source during servicing.
- Always operate the unit using a power source with the same voltage, frequency, and rating as indicated on the product identification plate.
- Always use a grounded power outlet.
- Unplug the power cord during cleaning or when the appliance is not in use.
- Do not operate the unit with wet hands and prevent water from spilling onto it.
- Avoid immersing or exposing the unit to rain, moisture, or any other liquid.
- Do not leave the unit running unattended or tilt/turn it over.
- Do not unplug the unit while it is operating.
- Avoid unplugging the unit by pulling on the power cord.
- Do not use an extension cord or adapter plug with the unit.
- Do not place objects on top of the unit.
- Avoid climbing or sitting on the unit.
- Do not insert fingers or other objects into the air outlet.
- Avoid touching the air inlet or the aluminum fins of the unit.

- Do not operate the unit if it has been dropped, damaged, or shows signs of malfunction.
- Refrain from cleaning the appliance with any chemicals.
- Ensure the unit is placed far away from fire, flammable, or explosive objects.
- The unit should be installed in compliance with national wiring regulations.
- Do not use any methods to speed up defrosting or cleaning other than those recommended by the manufacturer.
- Store the appliance in a room without continuously operating sources such as open flames, a running gas appliance, or an operating electric heater.
- Store the appliance to prevent mechanical damage.
- Do not pierce or burn the appliance, even after use.
- Note that refrigerants may be odorless.
- Protect pipe-work from physical damage and avoid installing it in unventilated spaces smaller than 43 sq.ft (4 m²).
- Follow national gas regulations.
- Keep ventilation openings clear.
- Store the appliance in a well-ventilated area matching the specified operation room size.

⚠ WARNING	Any individual involved in working on or accessing a refrigerant circuit must possess a current valid certificate from an industry-accredited assessment authority. This certificate should authorize their competence to handle refrigerants safely, adhering to industry-recognized assessment specifications.

⚠ WARNING	Servicing should strictly adhere to the recommendations provided by the equipment manufacturer. Maintenance and repair tasks that require the assistance of skilled personnel should be conducted under the supervision of someone competent in handling flammable refrigerants.

If you have any questions or need assistance, please don't hesitate to contact our customer service team.

2.2 Safety Precautions for Servicing

Please adhere to the following warnings when servicing an appliance using R32 refrigerant.

- **2.2.1 Safety Inspection for the Area**

Before commencing work on systems containing flammable refrigerants, safety checks are essential to minimize the risk of ignition. For repairs to the refrigerating system, the following precautions must be observed before conducting any work on the system.

- **2.2.2 Work Procedure**

All tasks must be carried out following a controlled procedure to minimize the possibility of a flammable gas or vapor being present during the work process.

- **2.2.3 General Work Area**

All maintenance personnel and other individuals in the vicinity must be informed about the type of work being conducted. Working within confined spaces should be avoided. The area surrounding the work space must be cordoned off. Confirm that the conditions within the area have been made safe through the management of flammable materials.

- **2.2.4 Checking for Refrigerant Presence**

Before and during the work, the area must be checked using a suitable refrigerant detector to ensure the technician is informed of any potentially flammable atmospheres. Confirm that the leak detection equipment employed is compatible with flammable refrigerants, meaning it should not produce sparks, should be adequately sealed, and must be intrinsically safe.

- **2.2.5 Availability of Fire Extinguisher**

If any hot work is to be performed on the refrigeration equipment or related components, ensure that suitable fire extinguishing equipment is readily accessible. Keep a dry powder or CO2 fire extinguisher nearby the charging area.

- **2.2.6 Avoid Ignition Sources**

Any person working on a refrigeration system that involves exposing pipe work containing or previously containing flammable refrigerant must refrain from using ignition sources that could potentially cause a fire or explosion. All potential ignition sources, including cigarette smoking, should be kept a safe distance away from the installation, repair, removal, and disposal sites where flammable refrigerant may be released. Before beginning work, survey the area around the equipment to ensure there are no flammable hazards or ignition risks. Display "No Smoking" signs.

- **2.2.7 Ventilation Requirements**

Before commencing work such as breaking into the system or performing hot work, confirm that the area is either outdoors or adequately ventilated. Adequate ventilation should be maintained throughout the work process. The ventilation should effectively disperse any released refrigerant and preferably direct it externally into the atmosphere.

- **2.2.8 Inspections for Refrigeration Equipment**

When altering electrical components, they must be appropriate for the intended purpose and meet the correct specifications. Always adhere to the manufacturer's maintenance and service guidelines. If uncertain, consult the manufacturer's technical department for assistance.

For installations involving flammable refrigerants, conduct the following checks:

— Confirm that the charge size matches the room size in which the refrigerant-containing components are installed.

— Ensure that ventilation machinery and outlets are functioning adequately and free from obstruction.

— If using an indirect refrigerating circuit, inspect the secondary circuit for the presence of refrigerant.

— Maintain the visibility and legibility of equipment markings. Correct any illegible markings or signs.

— Position refrigeration pipes or components in a manner that minimizes exposure to substances that could corrode refrigerant-containing components, unless the components are inherently resistant to corrosion or appropriately safeguarded against it.

- **2.2.9 Inspections for Electrical Devices**

When conducting repairs and maintenance on electrical components, perform initial safety checks and component inspections. If a fault is detected that could compromise safety, refrain from connecting any electrical supply to the circuit until the fault is resolved satisfactorily. If immediate correction of the fault is not possible but continued operation is necessary, implement an appropriate temporary solution. This must be reported to the equipment owner to ensure all relevant parties are informed.

Initial safety checks should cover:

— Discharging capacitors in a safe manner to prevent potential sparking.

— Ensuring that no live electrical components or wiring are exposed while charging, recovering, or purging the system.

— Verifying continuity of earth bonding.

WARNING

Install the unit in rooms larger than 43 sq. ft (4 sq. m).
Avoid installing the unit in locations where flammable gas may be present.

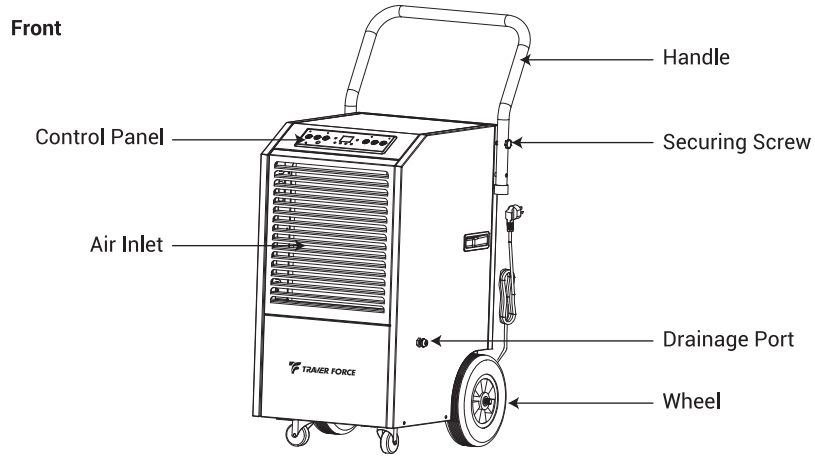
NOTE

The manufacturer might offer alternative appropriate examples or provide additional information regarding the odor of the refrigerant.

3. PRODUCT SPECIFICATIONS

Model	OL50D-BD506W
Power Supply	AC 115V 60Hz
Dehumidification Capacity	70 Pints/Day (at 80℉, 60% RH)
	120 Pints/Day (at 86℉, 80% RH)
	140 Pints/Day (at 90℉, 90%RH)
Power Consumption & Current	667W/5.8A at 80℉, 60% RH
	920W/8A at 95℉, 80% RH
Refrigerant & Capacity	R32 / 6.71 oz
BCSC	15A
Maximum Design Pressure	High Side: 550 psig
	Low Side: 260 psig
Compressor Input	RLA: 5.5A
	LRA: 27A
Fan Motor Power	0.10 HP
Net Weight	85 lbs/39 kg
Gross Weight	93 lbs/42 kg

4. PRODUCT OVERVIEW



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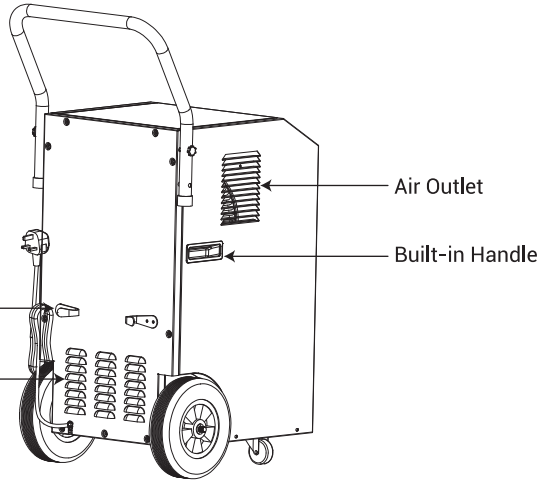


Package List

1 x Dehumidifier

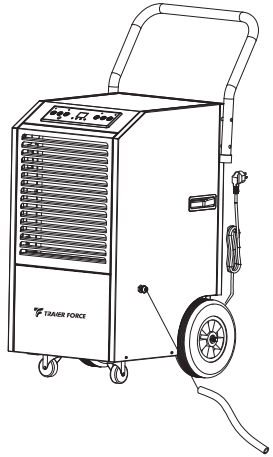
1 x Drainage hose (16.4 ft / 5m)

2 x Securing screws (for the handle)

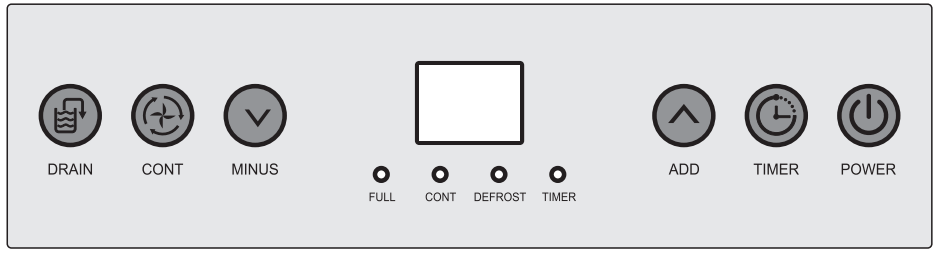
5. DRAINING

- Connect the included Drainage Hose to the Drainage Port on the appliance. Position the hose towards your desired drainage area before powering on the appliance. The machine features a built-in water pump for automatic water drainage.
- The water pump enables drainage even if the drain area is higher than the dehumidifier's drainage port, with a maximum vertical handling capacity of 16.4 feet (5 meters). However, there is no limit to the horizontal distance if the water is drained downward.

WARNING: Do not block or twist the drainage hose.



6. MACHINE SETUP AND OPERATION



6.1 Button Function

(1) POWER

Plug the appliance into the power supply.
Press the POWER button to turn it on; the appliance will automatically enter Continuous Dehumidification mode and the indicator will go on. The screen will light up to display the current ambient humidity.
Press the POWER button again to turn it off. The interior fan will continue to run for one more minute before stopping.

(2) TIMER

1. Setting Timer for Machine Start:

While the machine is in standby mode (plugged into power but not yet turned on),

1) Press the timer button.

2) Use the "MINUS" or "ADD" buttons to set your desired running time.

3) The TIMER indicator will illuminate.

4) Once the timer countdown is complete, the machine will turn on automatically.

2. Setting Timer for Machine Shutdown:

1) Press the timer button while the machine is running, and the TIMER indicator will activate.

2) Use the "MINUS" or "ADD" buttons to set the desired running time.

3) When the timer countdown finishes, the machine will shut down automatically.

3. The timer setting is 0 to 24 hours.

(3) ADD

1. Set Relative Humidity (RH):

Press the button to increase the relative humidity by 5% increments in Normal Dehumidification mode. Press and hold the button to continuously increase the humidity level.

2. Set Timer:

Use this button to increase the timer duration when in TIMER activation mode.

(4) MINUS

1. Set Relative Humidity (RH):

Press the button to decrease the relative humidity by 5% increments in Normal Dehumidification mode. Press and hold the button to continuously decrease the humidity level.

2. Set Timer:

Use this button to decrease the timer duration when in TIMER activation mode.

NOTE:

- The default humidity is set at 50% RH and can be adjusted as follows:
  20% - 25% - 30% - 35% - 40% - 45% - 50% - 55% - 60% - 65% - 70% - 75% - 80% - 85% - 90%
- The status of the compressor and fan is determined by the environmental humidity and the machine-set humidity as follows:

  Environmental humidity ≥ machine-set humidity +3%, the compressor and fan will start running.

  Environmental humidity < machine-set humidity +3%, the compressor and fan will stop running.

(5) CONT

1. In Continuous Dehumidification mode, the humidity setting is unavailable. The Continuous Dehumidification mode indicator light will turn on, and the screen will display the current ambient humidity.
2. To switch to Normal Dehumidification mode, press this button. Then, you can use the MINUS and ADD buttons to set the desired humidity level.

(6) DRAIN

Press and hold this button for 3 seconds to activate the forced drainage system. The light will illuminate to indicate the system is active. The water pump will stop working once the drainage process is completed, and the light will then turn off.

6.2 Operation

1. When the water pump reaches full capacity, the "FULL" light will turn red, and the pump will start emptying water.
2. The system includes a memory feature. Once all mode settings have been completed, if there is a sudden power cut during operation or if the power jack becomes disconnected, the system may store the current status just before the power interruption. It will then automatically resume the previous operation mode once power is restored.

6.3 Defrost Function

1. The compressor and fan will automatically shut off when the environmental temperature drops below 41°F or rises above 100.4°F.
2. During the defrost operation, the defrost indicator will remain on until the defrosting process is complete. If the power is interrupted or shut down during defrosting, the defrosting process will need to restart once power is restored. Dehumidification mode can resume only after the defrosting process is finished.

7. ERROR INDICATION

(1) "E1": If the temperature sensor fails, it will display "E1". The machine will cycle between dehumidification for 30 minutes and defrosting for 15 minutes. A faulty temperature sensor should be replaced with a new one.

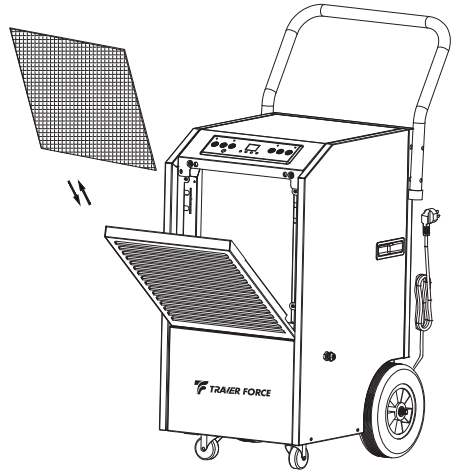
(2) "E2": If the humidity sensor fails, it will display "E2", and the humidity adjustment button will not function. The machine will operate in cycles of dehumidification for 30 minutes and defrosting for 15 minutes. A faulty humidity sensor should be replaced with a new one.

(3) "FL": Indicates a failure with the water pump.

8. CLEAN & MAINTENANCE

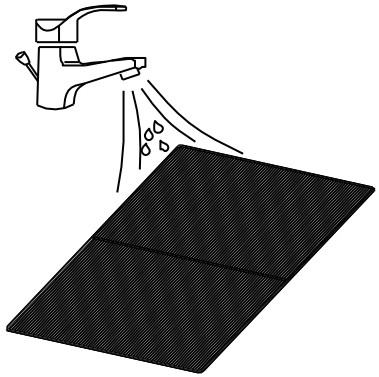
8.1 Clean the machine's housing using a soft, damp cloth.

8.2 Pull out the louver on the front panel to access the filter.



8.3 Remove the filter mesh from the unit.

8.4 Use a clean cloth to remove surface dust from the filter mesh. If the filter is heavily soiled, rinse it with tap water. Ensure the filter is completely dry before reinserting it into the air inlet grille. Keeping the filter clean helps maintain the machine's performance.



9. MACHINE STORAGE

If you won't be using the machine for an extended period, follow these steps for storage:

1. Clean the filter mesh thoroughly and allow it to dry completely.
2. IMPORTANT: Ensure the evaporator inside the machine is dry before packing to prevent component damage and mold growth.

How to dry it:

1) Unplug the machine and place it in a dry, well-ventilated area for several days to dry out naturally.

2) Alternatively, you can set the humidity setting to be at least 2% higher than the ambient humidity to activate the fan and dry the evaporator for a few hours.

3. Store the power cord at the back of the machine.
4. Store the machine in a clean, dry environment.

10. TROUBLESHOOTING

Issues	Possible Causes	Solutions
Machine does not run.	Machine is not plugged in power supply.	Connect the machine to a power supply.
	Room temperature is below 41°F or above 100.4°F.	For optimal protection, operate it only when the ambient temperature is between 41°F and 100.4°F.
Machine runs but does not dehumidify.	Check if the humidity set point is only 2% higher than the ambient humidity.	Adjust the humidity setting to a lower level. Alternatively, power off the machine if the desired humidity level has been achieved.
Reduced dehumidifier capacity.	Filter mesh jammed.	Clean the filter mesh as instructed in the manual's CLEAN & MAINTENANCE section.
	Air-in and/or Air-out louvers jammed.	Clear any blockages from the Air-in and/or Air-out louvers.
No air inlet.	Filter mesh or air-in louver is jammed.	Clean the filter according to the instructions or clear the blockage in the louver.
Loud operation volume.	Machine situated on an incline or decline slope.	Move the machine to flat ground.
	Filter mesh jammed.	Clean the filter mesh according to the instructions provided.

If you encounter any other issues, please don't hesitate to contact us directly by emailing **supports@traverforce.com**

Caution: In case of any abnormal occurrence, switch off the machine and unplug it immediately. Contact a qualified professional for assistance.

11. DISPOSAL

WARNING

It is strictly prohibited to release refrigerant into the atmosphere.

- Do not treat electrical appliances as regular municipal waste; use designated collection facilities.
- Contact your local government to learn about available collection systems.
- Improper disposal of electrical appliances in landfills can lead to the leakage of hazardous substances into groundwater, potentially harming the environment and public health.

12. WARRANTY INFORMATION

If the appliance malfunctioned, a limited warranty will be provided:

Dehumidifier: 1 year

Please have your purchase date and a clear photo of the product nameplate and series number ready when claiming warranty.

Exclusions:

- The warranty will not cover damage caused by:
- Intentional damage
- Natural disasters like earthquakes, fires, etc.
- Improper use or failure to follow instructions.
- Disassembly leading to damage or malfunction.

13. CUSTOMER SUPPORT SERVICE

When encountering any issues, please contact our support team directly by sending an email to **supports@traverforce.com**

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Intertek
5006106